

# Oasis: Integrated Land Management in Dry areas



**Examples from ICARDA  
Experience in North Africa**

# Technical options

- **Water harvesting and its efficient use**
- **Germplasm collection and development of protected areas and biosphere reserves**
- **Wind erosion control**
- **Crop land management/conservation Agriculture**
- **Diversification of Production systems**
- **Rangeland / crop-livestock integration**

# Technical options



**Soil and water  
conservation technologies**

# Technical options



**Water harvesting associated with  
rangeland improvement**

# Technical options

Germplasm collection and development of protected areas and biosphere reserves – Bou Hedma

*Acacia raddiana* based steppe is recovering

More than 400 plant species  
8 among 14 important species  
for biological diversity  
protection of arid areas are  
present.

Oryx, Addax and Mohr gazelle,  
mouflon à manchettes and dorcas  
gazelle.

14.10.2004



## Vallerani Water Harvesting Project



Vallerani Water Harvesting Project

# Assistance technique en conservation des eaux et du sol



Codons en pierres sèches



Collecte des eaux de ruissellement : diguette



# Assistance technique dans le domaine de productions fourragères et de ressources alimentaires alternatives



2 pépinières  
45 techniciens et cadres  
95 agropasteurs  
Jardins familiaux



# **Institutional and policy issues: the **Bottle neck****

- **Technical options easy to develop and implement, and are not sufficient.**
- **Institutional and policy options are crucial for Natural resources management**
- **Need for full integration of the TIP0s**

# Improving co-learning by linking sources of local and scientific knowledge in the drylands



*Farmer-researcher  
dialogue*

## *Differing perceptions of priorities for dryland Syria*

### • **Researchers' views:**

<b>Lamb fattening</b>	<b>23</b>
<b>Micro-credit</b>	<b>22</b>
<b>Water harvesting</b>	<b>8</b>
<b>Home garden</b>	<b>8</b>
<b>Jabban institution</b>	<b>3</b>

### • **Policy makers' views:**

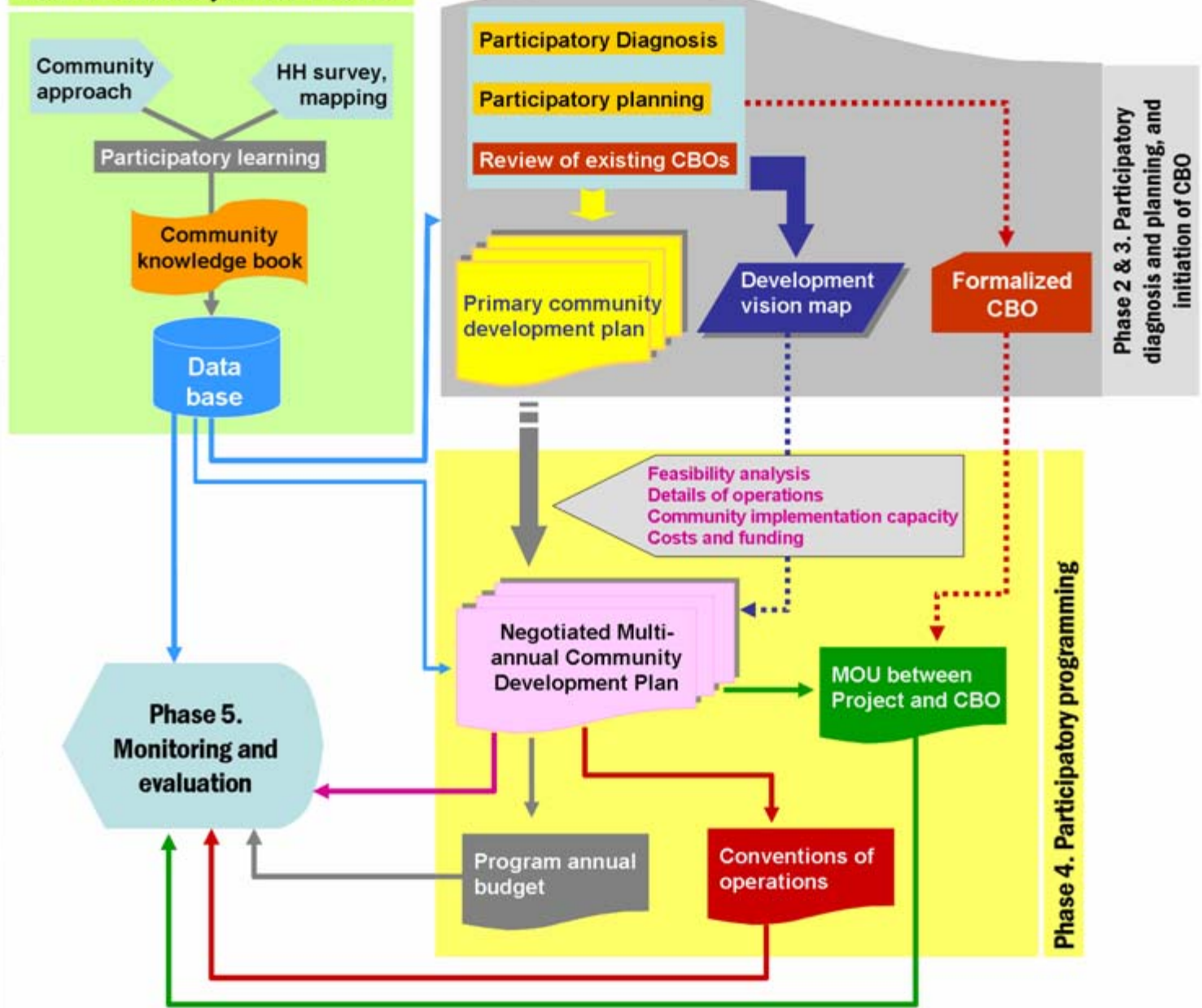
<b>Water harvesting</b>	<b>8</b>
<b>Micro- Credit</b>	<b>7</b>
<b>Modern irrigation techniques</b>	<b>4</b>
<b>Lamb fattening</b>	<b>3</b>
<b>Barley varieties</b>	<b>1</b>

# NRM and local development is the responsibility of all ....



**But the final decision is the business of the community ....**

**Phase 1. Community Characterization**



**Five-steps methodology to implement participatory approach in agropastoral communities**